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People h  
dumped  
native a  
rium pla  
now clog  
the water  
salmon ca  
hardly get  
through. To  
SKIP 1 SPA  
name non-  
native water  
weed.



Local enviro  
mental  
helps

## START HSINIF

Salmon **alevin**  
hatches from  
egg within the  
**redd** nestled in  
the stream  
gravel.



To move up  
stream and **WIN**  
**THE GAME**,  
name 4 of the 7  
fish species that  
are **endangered**  
in Washington  
state.  
Hint: several  
are salmon.

Salmon spawns  
and dies, and  
the eggs are  
safe in the  
gravel **redd**  
waiting for  
spring.

Salmon fry  
swims over  
**redd** that was  
squashed  
by mountain  
bikers. TO  
**ROLL AGAIN**,  
correctly  
name two  
other ways  
a **redd** can  
be damaged.



Alevin hangs  
out in the  
gravel and  
feeds on its  
yolk sack,  
and emerges  
as **fry**.

Fry finds a  
fallen tree in  
the stream to  
hide under for  
shelter, and  
finds delicious  
**macro-inver-**  
**tebrates** to eat.  
**ROLL AGAIN**.



Salmon is close  
to home to  
spawn and start  
the next gen-  
eration. TO **ROLL**  
**AGAIN**, name  
two things im-  
portant during  
spawning.



Salmon's eyes are smarting from pesticides and insecticides that have seeped from careless landowners' yards into the stream. **LOSE 1 TURN.**

Fry can't breathe with silt in its gills. A land owner has cut timber but didn't follow forest riparian buffer rules, so silt washed into the stream. **LOSE 1 TURN.**

To ROLL AGAIN, name one common native riparian tree.

Fry passes timber harvest site. Landowner has followed forest practices rules and left 100 feet of riparian (streamside) buffer, so the water is cool and protected. **ADVANCE ONE SPACE.**

EAGLE STRIKE! It picked up the salmon but dropped it. Eagles, heron, kingfishers, and bears are some natural predators that salmon must avoid. **MOVE BACK 1 SPACE.**

Shredder eats tree leaves and needles that fall into the stream. In turn, fry eats shredders.

ONTO A FISH TRUCK. Some other fish couldn't find the fish ladder and had to be carried on a truck up to the reservoir. **BACK 4 SPACES.**

stream is getting wider, and slower... it's a lake. Where can the fry hide? **TO ROLL AGAIN,** give two correct answers.



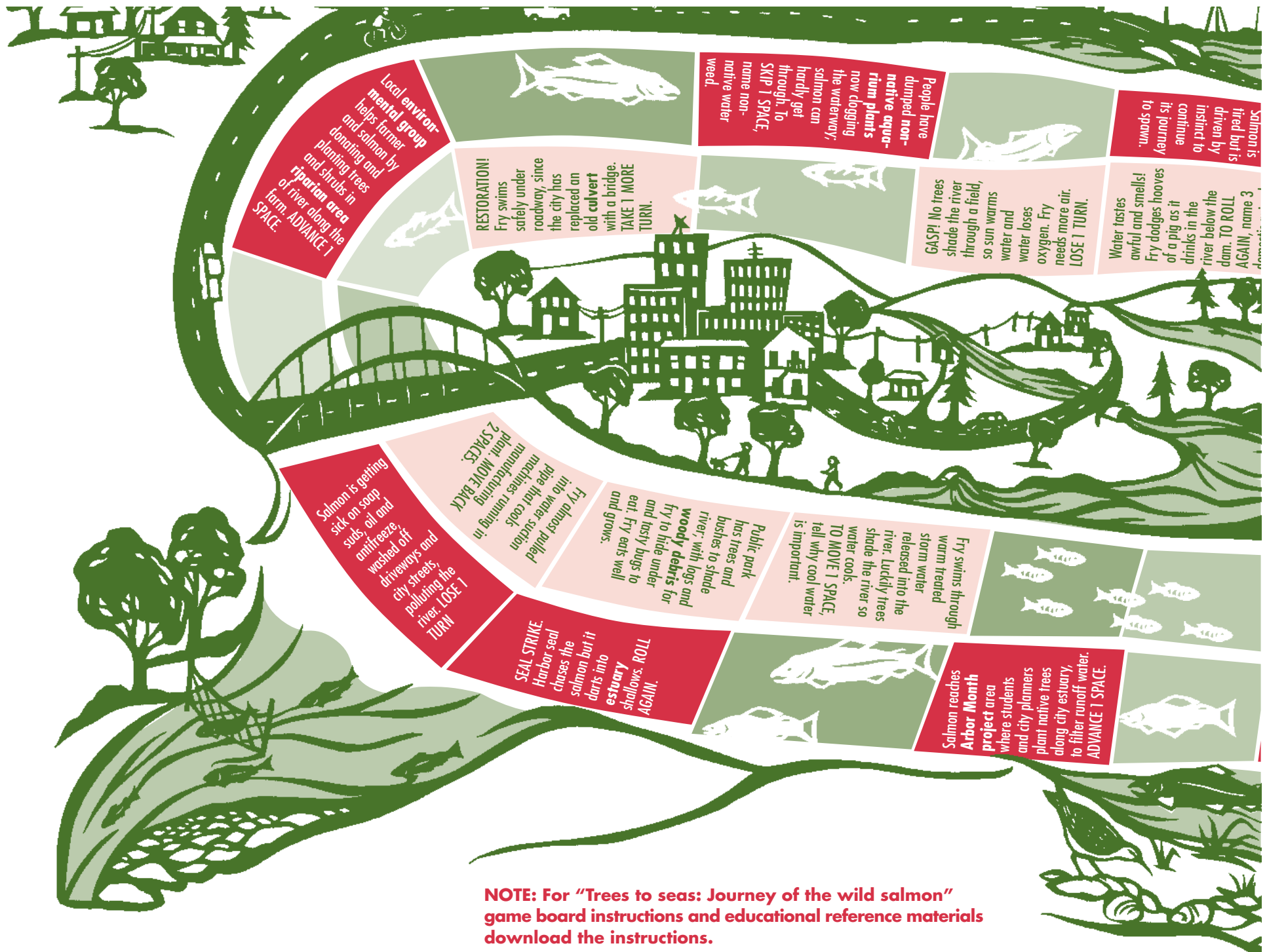




Illustration by Nikki McClure

Salmon is tired but is driven by instinct to continue its journey

Fry dodges hooves of a pig as it drinks in the river below the dam. TO ROLL AGAIN, name 3 domestic animals that can **pollute** streams.

The lake is a reservoir behind a dam that generates electricity, but the fry avoided **turbines** and found the fish ladder. **MOVE AHEAD 1 SPACE.**

**LOOKOUT!** Dam blocks the river, but salmon swims through turbulent waters to find the fish ladder to leap up to the reservoir. **SKIP 1 SPACE.**

**OH NO!** A blue heron narrowly misses eating the fry. **MOVE BACK 2 SPACES.**

Fry dodges a duck and has hidden itself in grasses and reeds along the shore. **2 ADVANCE 2 SPACES.**

The fish ladder and had to be carried on a truck up to the reservoir. **BACK 4 SPACES.**

The stream is getting wider, and slower... it's a lake. Where can the fry hide? **TO ROLL AGAIN.**

Fry reaches the estuary where saltwater mixes with river water as tide comes in. **WAIT 2 TURNS** while fry feeds and **osmoregulates**—gills and kidneys adapt to salt water.

**HAPPY BIRTHDAY!** This salmon fry has grown into a **smolt** now in the estuary before going out to the ocean.

Heavy rains in river push the **smolt** into saltwater too quickly. Its gills struggle to breathe. **SWIM BACK 1 SPACE** to estuary.

While salmon mature in the ocean, some become food for whales, sea lions, seals, or fish. But many strong salmon live for years at sea.

From the Pacific Ocean the salmon returns to the same estuary, where it **osmoregulates** to adapt once again to fresh water.

Our lucky mature salmon gets past humans that catch both weak and strong fish in nets in the ocean and rivers. **ADVANCE 1 SPACE.**

Salmon is almost poisoned by water run-off from streets as **non-point source pollution** enters estuary, filthy with toxic fluids, oils and other poisons. **WAIT 1 TURN.**

Pacific Ocean